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PLANT LABORATORIES IMPROVE RUBBER PRODUCTS.  
ESTONIA SUPPLIES WINDOWS FOR MOSCOW STATE UNIVERSITY

PLANT LABORATORY CONTAINS MINIATURE SHOPS -- Moskovskaya Pravda. 8 Aug 50

The central laboratory of the Moscow Tire Plant has set up miniature machines, units, and machine tools exactly like those in its shops. New formulas and technological methods are developed and checked here, experimental forms of rubber are created, and the structure of ready goods is analyzed. Automobile tires are rolled on a special machine to determine their durability. The laboratory solves problems on technical operation and scientific production.

With the help of engineers from other departments, workers have written dozens of scientific works which are used by institutes and other enterprises. A few days ago, engineers and laboratory technicians, together with the Institute of the Tire Industry, completed the first great work on the utilization of cheaper synthetic rubber instead of natural rubber for producing automobile tires.

Vechernyaya Moskva, 5 Aug 50

During the 5 years of its existence, the Moscow Tire Plant has made millions of automobile tires and inner tubes. Year by year, the workers' skill has increased. They have not only reached the planned capacity of the plant, but have exceeded the technical norms in some sections. In April, the plant fulfilled its five-year plan in gross output. Tires are of such excellent quality that they last much longer than the period guaranteed by the plant.

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SETS UP QUALITY CONTROLS OVER RUBBER TECHNICAL PRODUCTS -- Riga Sovetskaya Latvija, 4 Aug 50

Since the war, the qualifications of personnel at the Riga Varonis Rubber Plant have changed radically. Dozens of new machines and units have been produced. Production at the plant is three times as high as in 1940, while labor productivity has increased six times.

The plant is constantly trying to improve the quality of production. Last year, 86 percent of the output was of the first grade. Now the output of first-grade goods has reached 99.8 percent.

The rubber technical products shop has accomplished much, as a result of sound technical training. All the workers have taken minimum technical training courses. Even the experts' skills are increased by a systematic training program. A worker entered the plant in 1947 with no training. After taking the minimum requirements course, he studied technology. He is now in charge of an "excellent quality" brigade.

Technologists play a large part in improving the quality of goods. Last year the technological processes for making all items were studied, new charts were drawn up, and detailed instructions were worked out for every production operation. Rigid controls were set up over adherence to prescribed technology, maintenance of the quality and properties of raw materials and chemicals, and the preparation of rubber compositions. Preliminary testing of these compositions is done in the plant laboratory and the department of technical control.

Working areas of the machine tool operators are now equipped with all necessary control mechanisms, scales, clocks, and manometers. Previously chemicals were measured, and vulcanizing periods were determined by rule of thumb.

Quality of output has also been improved by mechanical cementing of driving belts.

Besides improving the quality of goods produced, the rubber technical products shop, during a 6-month period, saved 24 tons of natural and synthetic rubber, 5,400 square meters of fabric, and a great deal of coal and electric power. -- A. Stepe, Chief of the Rubber Technical Products Shop of the Varonis Plant

RENOVATES HOSE SHOP -- Moscow Trud, 29 Jul 50

At the Moscow Kauchuk Plant four men were formerly required for removing certain spherical parts from the press mold. A new method has been developed, which simplifies the process and doubles productivity. A pneumatic nozzle is inserted into the mold, and the object easily withdrawn by one person.

In the hose shop, rubber-cementing tables have been lengthened from 13 to 25 meters, rotating speed of the seaming head has been increased, equipment has been partially replanned, tools have been improved and properly dispersed, hourly schedules have been introduced, and a steady supply of materials and semifabricated goods has been assured. Labor productivity has increased greatly as a result.

A space-saving campaign has made it possible to increase output of 51-millimeter hose from 133 meters per shift to 208 meters.

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MAKES RUBBERIZED ROLLERS FOR CELLULOSE INDUSTRY -- Voshornyaya Moskva, 4 Aug 50

The chemical apparatus shop of the Moscow Kauchuk Plant has begun to rubberize rollers for machines used in the cellulose industry which work under great loads. The rubberization is being done by a new method, which doubles the length of service of the rollers.

The plant has also made rubberized rollers for printing machines for the polygraphic industry.

MAKES WINDOWS FOR MOSCOW STATE UNIVERSITY -- Tallin Sovetskaya Estoniya, 28 Jul 50

The Estonian Combine, Yarovakandi, has changed and grown during the years of Soviet control. The woodworking plant, which was formerly only a small shop where packing for glass items was made, is now a large enterprise. Its shops produce prefabricated houses for kolkhoz settlements in the republic, and various wooden items for dwellings, schools, hospitals, and nurseries.

The glass plant has been improved with technical equipment. Previously, pressure in the furnace was not measured accurately, and slight deviations from the norm produced defects in the glass. The plant appealed to the All-Union Scientific Research Institute for Glass, which supplied a special manometer of the latest design.

The washing shop has set up new apparatus for automatically supplying current from a storage battery system. Heretofore, the sudden cutting off of current when the electric power station broke down caused the glass strips in the machines to break. It required more than 10 hours to repair the damage.

An instrument has been designed for cutting off the edges of glass. It has greatly increased labor productivity and reduced waste. A conveyer for glass packing materials has also been designed.

To help improve the quality of output, the combine has established connections with the All-Union Scientific Research Institute, the Leningrad Institute of Fireproof Materials, and the Tallin Polytechnic Institute. Many workers keep up a steady correspondence with scientists from these institutions.

Recently, a large order was received for making 7,500 window panes for the Moscow State University. The combine is now converting to continuous production of this item. The order will thus be completed in half the time. -- A. Yanson, director of the combine

MAKES CONSUMERS' GOODS FROM WASTE PRODUCTS -- Tallin Sovetskaya Estoniya, 28 Jul 50

The Yarovakandi Glass Plant strives to utilize waste materials for other purposes. If a sheet of glass is defective, parts of it are utilized in the consumers' goods shop. Glass trimmings are used for making small mirrors.

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